

New Records, Identifications, and Synonymy of Diptera Found in Hawaii.

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During the course of my work on Hawaiian flies, names have come to light which have been apparently omitted from local literature. Some of these determinations were made by Mr. F. W. Terry, of specimens in his collection. Some were identified for Dr. Illingworth by the late Mr. Frederick Knab, and others, recently, by Dr. Aldrich. A few of the synonyms were suggested by Major W. S. Patton, of Edinburgh.

NEW RECORDS.

Calliphora latifrons Hough. [Muscidae.]

Identified by Aldrich; specimens collected by Illingworth, near Waimea, Hawaii, June, 1922.

Conicera atra (Meigen). [Phoridae.]

Identified by Knab; specimens bred by Illingworth, "ex rotten potatoes," Oahu, March, 1916.

Hydrotaea houghi Malloch. [Anthomyiidae.]

Identified by Malloch; specimens collected by Illingworth, near Waimea, Hawaii, June 19, 1922; a single specimen (Swezey), Kilauea, Hawaii, February 24, 1919.

Milichia sp. [Agromyzidae.]

Det. by Knab; specimens bred "ex barley seed," by Illingworth, March, 1915.

Rhodesiella elegantula (Becker). [Chloropidae.]

Specimens collected by Illingworth, near Waimea, Hawaii, June 18, 1922. Identified by Aldrich, who says: "(*Meroscinis* of Becker, Monog. Ann. Mus. Nat. Hung., IX, 1911, p. 89.) Known from Formosa, Java. Bezzi, in Journ. N. Y. Ent. Soc., XXVII, 1919, 174, has explained that *Meroscinis* is a syn. of *Rhodesiella* Adams."

Rhodesiella tarsalis Adams. [Chloropidae.]

Specimens collected by Illingworth, near Waimea, Hawaii, June 18, 1922. Identified by Aldrich, who notes: "(*Merosciniis scutellata* de Meijere.) A widespread Oriental and African species."

Sapromyza sp. [Sapromyzidae.]

Det. by Aldrich; specimen collected by Illingworth, near Waimea, Hawaii, June 14, 1922.

RECENT IDENTIFICATIONS AND SYNONYMY.

Aedes aegypti (Linn.) [Culicidae.]

Our common day mosquito. (= *Aedes calopus* (Meigen), *Stegomyia fasciata* (Fabr.) etc.).

Aphiochaeta scalaris (Loew). [Phoridae.]

Identification by Knab of specimens bred by Illingworth "ex dead roach," April 7, 1913. Recently identified again by Dr. Aldrich. The common, large, brownish Phorid, locally known as "*Phora* sp.," the one I bred in 1920 from dead land shells (Proc. Haw. Ent. Soc., IV, p. 489).

Atherigona excisa (Wied.). [Anthomyidae.]

(= *Acritochaeta pulvinata* Grimshaw.) Synonymy by Malloch.

Drosophila repleta Wollaston. [Drosophilidae.]

Specimens bred "ex rotten potato," March, 1916, by Illingworth, were so determined by Knab, who noted: "= *carinata* Grim." The descriptions do not agree. Also recorded by Sturtevant from Hawaii (Carnegie Pub., 301, 1921, p. 101).

Gitona perspicax (Knab). [Drosophilidae.]

Sturtevant (Carnegie Pub., 301, 1921, pp. 54, 55) says that he does not consider *Gitonides* Knab distinct from *Gitona* Meigen.

Hylemyia cilicrura Rondani. [Anthomyidae.]

(= *Phorbia fusciceps* Zett.), which was determined from Hawaii by Knab, bred ex beets, by Illingworth, 1916. Synonymy by Aldrich; specimens collected by Illingworth, near Waimea, Hawaii, June 18, 1922.

Leptocera ferruginata Stenhammar. [Borboridae.]

(= *Borborus* sp. in local collections.) Identified by Knab; specimens collected by Illingworth, Oahu, June, 1914. Very common about refuse and manure.

Milichiella lacteipennis (Loew). [Agromyzidae.]

(= *Ophthalmomyia lacteipennis* Loew.) Synonymy by Knab. The very abundant little shiny black dung-fly, with the very shiny hyaline wings.

Puliciphora sp. [Phoridae.]

The Phorid with the wingless females. Det. by Knab; specimens bred by Illingworth, "ex dead roach," January, 1916.

Synthesiomyia nudiseta van der Wulp. [Muscidae.]

(= *S. brasiliانا* B. & B.; "the red-tailed Sarcophagid," etc.) Synonymy suggested by Major Patton; bred extensively ex dead rat by Illingworth. The maggots pupate together in the fur, forming a honeycomb-like mass.